

For example, referring to Fig. 2A and Fig. 2B, a conventional scanning method includes steps 21, 22, and 23 while the scanning method in accordance with the present invention comprises steps 24, 25, and 26. A conventional scanning method includes steps of scanning an original first time with a first resolution to provide a preview window with an image (step 21), selecting a portion of the image from the preview window (step 22), and scanning the original second time with a second resolution and performing an optional image process to get a processed image (step 23). In comparison with the conventional method, the present invention comprises steps of directly scanning the original with the second resolution and performing an optional image process to provide a preview window with a processed image (step 24), selecting a portion of the processed image (step 25), and outputting the selected image (step 26).

Apparently, the present invention combines the first scan and the second scan to perform only one scan to generate the preview window. There is no second scan performed after the processed image is selected. Thus, the image shown on the preview window or the processed image selected is what user gets of the output image. In other words, the present invention provides users with what you see what you get feature unless the resolution of screen is too low to precisely display preview window.

Moreover, due to the first resolution and the second resolution are input by users in the prior art, there is no difficulty in implementing the present invent. The resolution (the second

resolution) used to scan an original can be input by users depending on personal experience and the image wish to get. Thus, the desired image is acquired by use of the resolution in one scan of the original.

5            Besides, as shown in Fig. 3A and Fig. 3B, a conventional scanning method includes steps 31, 32, and 33 while the scanning method in accordance with the present invention comprises steps 34, 35, and 36. A conventional scanning method is when user wants to scan some kind of originals (like reflective original), the scan system will  
10        perform the scanning (step 32) depending on the scanning mode that user preset (like reflective scanning mode) (step 31), and then display scanned image on preview window (step 33). In comparison with the conventional method, the present invention comprises steps of put the original into scan system and switching on scan system (step 34), and  
15        then scan system starting to scan this reflective original with alternate reflective scanning mode and transparent scanning mode automatically (step 35), and displayed all content of this reflective original in preview window.

20            Certainly, not all of scanned originals (or many originals want scanned together, or some originals mixed both reflective and transparent original in one original) mingle both reflective and transparent original, or not necessary use reflective scanning mode and transparent scanning mode in each scanning. Thus, the present  
25        invention can be changed as following: scan an original with one of scanning mode first, and then analyzed whether can identify the content of original from scanned data. If it can't be identified then scan again with another scanning mode. On the contrary, if it can be

identified then drawing preview image according to these data, and don't need scan again with another scanning mode.

5 Additionally, the image shown on the preview window is pre-processed by performing an image process (such as bit enhanced technology) to not only prevent the image on the preview window different form the output image, but also let users select the process mode and parameters used in the image process before the scan is performed. In comparison with the prior art that the image process is  
10 automatically performed, the present invention provides users more flexible applications.

It is noted that one of the reasons to perform a first scan with lower resolution and a second scan with a higher resolution, and user  
15 needs to set the scanning mode, but can't perform scanning with alternate reflective scanning mode and transparent scanning mode automatically in the prior art is because the hardware performance is limited to the scan speed of a scanner or the capacity of storing the image in a storage media. As the performance of commercial  
20 hardware products continuously progressing, today the scanning rate of scanner is faster then the past, besides the capacity and access rate of storage media are also bigger and faster then past. The limitation of hard ware is not an issue anymore. In accordance with the present invention, though the scanning method consumes more scanning time  
25 in one scan and requires larger storage capacity, the application of the present invention is feasible.

In accordance with the present invention, in one embodiment,